

NRO REVIEW COMPLETED

[redacted]
Copy 8 of 9

29 May 1962

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OXCART REVIEW

26 April - 29 May 1962

1. Meetings and Contacts

a. On 30 April Dr. Scoville, R.M. Bissell, M. Halaby, John Parangosky, Eugene Kiefer, and [redacted] to observe the first official flight of the A-12.

b. 26 April - 29 May. [redacted] visited LAC, [redacted] P&W Hartford [redacted] Attached is a copy of his latest report, dated 25 May 1962.

c. On May 4, 1962, Mr. Kiefer and [redacted] visited P&W Florida for a 50 hour test engine parts inspection. See OXC-3480 of 10 May 1962.

d. On 8 May Dr. Scoville, Messrs. Kiefer, [redacted] and Parangosky visited FGW [redacted] for a look at facilities and program status. This same group, plus [redacted] then visited Perkin-Elmer in Norwalk, Conn. After a most unsatisfactory camera development and schedule status report, P&E was instructed to reassess their program and report to Headquarters for a further review of their camera development and delivery program.

e. [redacted] visited LAC [redacted] to familiarize [redacted] with matters related to cover matters, as [redacted] is relieving [redacted] as Cover Officer for the project.

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Page 2

25X1A

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g. On 16 and 17 May [redacted] visited [redacted] [redacted] and was joined on 17 May by Mr. Parangosky. The purpose of the trip was to review the delivery program to insure continuation of the maximum level of effort which has become questionable due to [redacted] interface problems. During the visit it was found that the pump situation is improving steadily to the point that an "E" configuration pump (designed to operate without oil/fuel additives) appears to show promise of meeting temperature requirements.

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h. On 11, 17 and 22-25 May [redacted] visited Wilmington, Dayton, Milwaukee [redacted] in connection with the tank sealant problem. See attached reports.

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k. Thule AFB, Greenland, was visited on 23-25 May by Lt. Col.

l. [redacted] visited Burbank [redacted] on 24-25 May to coordinate joint engine airframe matters with [redacted] Flight test progress and reliability reporting techniques were also discussed.

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m. [redacted] visited El Centro NAF on 23 and 25 May where he observed [redacted] jump from 25,000 feet. All went well. See attached report.

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2. Status

a. Engine program status:

(1) Engine development test time accumulation for the period 26 April through 26 May:

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Page 3

| | |
|----------------------------|----------|
| Total engine time | 182 hrs. |
| Afterburner time | 22 hrs. |
| D-20 engine time | 180 hrs. |
| Mach 1.5 inlet temperature | 11 hrs. |
| Mach 2.0 inlet temperature | 8 hrs. |
| Mach 3.0 inlet temperature | 5 hrs. |
| 1900° F turbine time | 63 hrs. |
| Integrated control time | 75 hrs. |

The above time accumulation reflects a total of six concurrent engine test programs. Two engines have been returned very recently to assembly prematurely as a result of foreign object damage caused by surge investigation in one instance and by M 3.16 inlet temperature in the other. It is not expected that initial limited engine flight suitability will be affected.

Considering the two recent 50 hour tests plus an additional successful 10 hour sea level mission cycle afterburner endurance test with relocated zone II spraybar ring, it is expected that the Mach 2 limited engine flight suitability target for June looks favorable and is now dependent on satisfactory resolution of a recently surfaced problem involving thrust discontinuity.

(2) Delivery engine status:

| <u>Engine Number</u> | <u>Estimated Shipment</u> | <u>Scheduled Shipment</u> |
|----------------------|---------------------------|---------------------------|
| YD-1 | 31 May | 30 June |
| YD-2 | 11 June | 31 July |
| YD-3 | 6 July | 31 July |
| YD-4 | 3 Aug | 31 Aug |

(3) Hydraulic Pump:

16 sixty hour tests have been initiated since 15 March. 9 of these 16 have been successfully completed. 4 of the 9 successful tests were run at 350° F fuel without the oil additive. Two of the four @ 350° fuel without oil went 150 hours. One of these two 150 hour tests @ 350° fuel without oil included the AR additive and a 750° ambient environment.

Because of hardware lead time, pumps for the first few delivery engines will require the 3% oil additive.

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Page 4

(4) Engine Controls:

Mach 3.2 bench mission cycle endurance time has increased as follows:

| | Hours on 8 May | Hours on 28 May | Hours Increase |
|------------------------|-------------------|--------------------|-------------------|
| Main Control | 83 | 175 | 92 |
| Afterburner Control | 200 | 302 | 102 |
| Exhaust Nozzle Control | 50 | 71 | 21 |

The 92 hours main control time represents an informal hot Y test on one unit. Post test calibration and parts inspection satisfactory.

60 of the 102 hours afterburner control time represents a YPFRT on one unit which revealed a sticking pump controller piston with all other parts satisfactory. 42 of the 102 hours represents a second YPFRT still in process and on schedule.

A YPFRT on the main control system including exhaust nozzle control is scheduled to start 30 May.

a. Fuel Tank Sealant Status:

See attached reports by [redacted] dated 26 May 1962 and OXC-3546, dated 28 May 1962.

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3. Subjects for Discussion

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a. Engine/controls progress [redacted]

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b. [redacted] briefing (Dr. Scoville).

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c. Wires between [redacted] regarding TALL KING [redacted].

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d. Centrals data (Parangosky).

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e. Perkin-Elmer meeting (Parangosky).

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SIGNED

JOHN PARANGOSKY
Chief, Development Branch
Development Projects Division

Atts: As stated

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